

Re: Resistor Colour Codes

Source: <http://sci.tech-archive.net/Archive/sci.electronics.basics/2005-01/1438.html>

From: Kitchen Man (nannerbac_at_yahoo.com)

Date: 01/21/05

Date: Fri, 21 Jan 2005 10:09:38 -0700

On Thu, 20 Jan 2005 17:38:04 +0000 (UTC), "Richard Harris"
<richard_harris_2@hotmail.com> wrote:

>Hi,

> I have a resistor that is showing up as 56.0 Ohms on a multimeter but the
> colour code seems to say 560 Ohms.

>

>Green Blue Black Gold Brown

>5 6 0 ?? 1% Tolerance

I think of the third color as "number of zeroes." For instance, Yellow-Violet-Red is 4-7 plus two zeroes, or 4.7K. Other posters are correct that the third band is a power of 10 multiplier, but for ease of remembering and calculation, "number of zeroes to add" works for me.

>What does the gold mean?

The tolerance. I think gold is 1%. There are other color bands that can creep in in different situations. For instance, a gold third band means multiply by 10^{-1} , or one-tenth, which would make your resistor 5.6 Ohms if the third band were gold, not black.

>Thanks for ya time guys.

>